

Claims

- [c1] 1. A dual function console lamp comprising:
a bezel having at least one lamp housing aperture;
a lamp housing having eccentrically positioned outwardly extending collinear pivot pins that allow the lamp housing to pivot from a retracted dome lighting position in a plane generally normal to the bezel, out of the plane to an extended reading light position;
a retainer for rotatably securing the lamp housing to the bezel so that the lamp housing can rotate in the plane generally normal to the bezel; and
a switch operated by movement of the lamp housing between the retracted and extended positions.
- [c2] 2. The dual function console lamp of claim 1 further comprising:
a manually operated switch to control illumination of a lamp within the lamp housing when the lamp housing is in the retracted position.
- [c3] 3. The dual function console lamp of claim 1 wherein the lamp housing includes a reflector portion and a lens portion, the lens portion being substantially flush or recessed relative to surrounding portions of the bezel

when in the retracted position.

[c4] 4. The dual function console lamp of claim 1 wherein the lamp housing includes a reflector portion and a lens portion, the lens portion having a dimple feature to facilitate movement of the lamp housing between the retracted and extended positions.

[c5] 5. The dual function console lamp of claim 1 wherein the lamp housing includes a reflector portion and a lens portion, the lens portion having a protrusion to facilitate rotation of the lamp housing in the plane generally normal to the bezel.

[c6] 6. The dual function console lamp of claim 1 wherein the bezel includes a plurality of retaining members disposed about the aperture and wherein the retainer includes a flange that engages the plurality of retaining members.

[c7] 7. The dual function console lamp of claim 6 wherein the lamp housing includes a protrusion that extends between adjacent retaining members to limit rotation of the lamp housing.

[c8] 8. The dual function console lamp of claim 1 wherein the retainer includes a latching assembly to releasably hold the lamp housing in the retracted position.

- [c9] 9. The dual function console lamp of claim 1 further comprising a spring positioned to exert a moment about the pivot pins to oppose movement from the extended to the retracted position.
- [c10] 10. The dual function console lamp of claim 1 wherein the housing includes a striker rib that actuates the switch when the housing assembly moves between the extended and retracted positions.
- [c11] 11. A console lamp for a vehicle interior, the lamp comprising:
a bezel having a plurality of lamp housing apertures, a main switch aperture, and a plurality of retaining members positioned around each lamp housing aperture;
a lamp housing corresponding to each lamp housing aperture, the lamp housing having non-diametrically positioned pivot pins that allow the lamp housing to pivot from a retracted dome lighting position to an extended reading light position, the lamp housing also including a latch striker and a switch striker;
a retainer ring having a flange for engaging the retaining members of a corresponding lamp housing aperture for rotatably securing the lamp housing to the bezel so that the retainer ring and lamp housing can rotate within the bezel, the retainer ring including a plurality of pivot apertures cooperating with the pivot pins to pivotally

hold the lamp housing within the retainer and a mounting flange for mounting a latching mechanism;
a latching mechanism secured to the mounting flange for releasably holding the latch striker and the lamp housing in the retracted position;
a spring engaging the lamp housing and exerting a force to move the lamp housing from the retracted position to the extended position when the latch striker is released by the latching mechanism;
a hidden switch operated by the switch striker when moving the lamp housing between the retracted and extended positions to illuminate an associated lamp within the lamp housing when the lamp housing is in the extended position; and
a main switch extending through the switch aperture of the bezel to operate the lamp when the lamp housing is in the retracted position.

[c12] 12. The console lamp of claim 11 wherein the lamp housing comprises a reflector portion and a lens portion permanently fixed together.

[c13] 13. The console lamp of claim 12 wherein the lens portion of the lamp housing includes a dimple to facilitate movement of the lamp housing between the extended and retracted positions.

- [c14] 14. The console lamp of claim 12 wherein the lens portion of the lamp housing includes a rib to facilitate rotation of the lamp housing and retainer within the bezel.
- [c15] 15. The console lamp of claim 11 wherein the main switch includes a first position for providing power to a lamp within the lamp housing when in the retracted position, a second position for blocking power to the lamp when in the retracted position, and a third position for operating the lamp when in the retracted position based on operation of an auxiliary switch.
- [c16] 16. The console lamp of claim 11 wherein the spring is held by the retainer.
- [c17] 17. A dual function console lamp for a vehicle interior, the lamp comprising:
a bezel defining a first plane;
a housing disposed within an aperture of the bezel and adapted to receive a lamp, the housing being pivotable about a first axis to extend at an angle out of the first plane relative to the bezel to provide illumination to a first target area and to retract substantially flush with the bezel in the first plane to provide illumination to a second target area, the housing being rotatable within the first plane about a second axis; and
a switch operable by movement of the housing.

- [c18] 18. The dual function console lamp of claim 17 wherein the switch provides power to the lamp when the housing is pivoted out of the first plane.
- [c19] 19. The dual function console lamp of claim 17 further comprising a spring arranged to provide a force tending to move the housing out of the first plane.
- [c20] 20. The dual function console lamp of claim 19 further comprising a latching mechanism operable to selectively hold the housing in the first plane against the force of the spring.